











**3:3** 

## **DS POWER X**

100-400kVA

**Output Power Factor (PF) 1.0** 

**3-Level Technology** 

**DSP Control** 













DS Power X Online UPS uses the latest DSP technology, which can be programmed to suit a wide variety of electrical environments without impending its performance. It stands out with its stylish design, high power density (250KVA in less than 0.5m2 area) and less noisy operation than its counterparts. As a state-of-the-art product, the input and output side have been designed as 3-Level to maximize efficiency, reliability and functionality. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision.

## GENERAL SPECIFICATIONS

- kVA = kW (Output PF = 1.0)
- Transformerless ups technology
- 3 DSP controlled modular structure
- High power density
- · Separate main control board program for rectifier and inverter
- 3-Level rectifier, inverter technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDi)
- High input power factor
- High efficiency up to 96.0%
- Selectable input/output voltage/frequency/range
- Static and maintenance by-pass switch
- · High charge current capacity
- Ecomode operation (optional)
- Split by-pass input (dual input)
- Advanced TFT front panel
- Optional 0.8 and 0.9 output power factor (PF) option
- Cold start function

- ISO9001, ISO14001 compliant production
- Advanced diagnostics for the input
- 3 level battery protection
- $\bullet \ \, \text{Temperature compensated charge system}$
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Static and maintenance by-pass switch
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- View device operating parameters
- Advanced remote control features
- 2 years warranty



## TECHNICAL SPECIFICATIONS

MODEL	DX3100	DX3120	DX3160	DX3200	DX3250	DX3300 (soon)	DX3400 (soon)
Power (kVA)	100	120	160	200	250	300	400
INPUT							
/oltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)						
requency	50Hz / 60Hz, ± 10%						
Power factor	≥ 0.99						
ГНDI (*)	≤ 3%						
By-pass voltage	380/400 VAC 3 Phase + N, ± 10 (adjustable)						
/oltage distortion	≤ 10%						
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator						
DUTPUT			,		,		
Power (kW)	100	120	160	200	200	300	400
Power factor (**)	100		1.0	200	0.8		
/oltage							
	380/400 VAC 3F + N, ± %1  50Hz / 60Hz						
requency requency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0.1%						
Efficiency	up to 95.5% up to 96.0%						
Crest factor	3:1						
Overload protection	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass						
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting  ≤ 2% (linear load), ≤ 5% (non-linear load)						
/oltage THD			≤ 2% (II	near load), $\leq 5\%$ (non-lin	ear Ioad)		
BATTERIES							
ype	VRLA AGM / GEL / NiCd						
Nominal voltage	± 360 VDC						
Float / End of discharge voltage	± 405 VDC / ± 300 VDC						
Battery cabinet	External						
Battery ambient temperature	25°C						
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)						
Automatic testing			Stanc	ard every 72 hours (adju	stable)		
GENERAL							
User interface			TFT tou	ch panel, 5 vector button	s, Buzzer		
ndicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time						
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232, Operating hour meter						
Communication	2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays						
nputs	EPO input, Interactive battery panel input, Genset input						
Genset kit	Standard (programmable)						
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)						
Alarm logging	Standard: with time & date 512 events						
Protections	Power module over-temperature, Overcurrent, Temperature high alarm						
Temperature range	0°C - 40°C						
Protection degree	IP20						
Relative humidity	90% max. (non-condensing)						
Altitude	< 1000m above sea level						
Atii	< 62dBA < 65 dBA < 67 dl				dBA		
Acoustic noise	24.0	220	262	270	295	65	55
	210					1900x12	250x775
Veight (kg)	210		1440x475x890				
Weight (kg) Dimensions (mm) HxWxD	210		1440x475x890				
Acoustic noise Weight (kg) Dimensions (mm) HxWxD DPTIONS Different input / output voltage	210		1440x475x890	Please ask			
Weight (kg) Dimensions (mm) HxWxD DPTIONS	210			Please ask transformer at the input	& output (external)		
Weight (kg) Dimensions (mm) HxWxD DPTIONS Different input / output voltage Transformer	210	T-Mon A	Galvanic isolation		• • • • • • • • • • • • • • • • • • • •	200 clients	
Weight (kg) Dimensions (mm) HxWxD DPTIONS Different input / output voltage	210		Galvanic isolation Idmin Multi UPS monitor	transformer at the input	s, T-Mon Server 50-100-2		
Veight (kg)  Veigh	210		Galvanic isolation Idmin Multi UPS monitor	transformer at the inputing 10-50-100-200 clients	s, T-Mon Server 50-100-2		













